

## ORGANIZATION



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(21) International Application Number: PCT/CAS  (22) International Filing Date: 8 December 1998 (Case)  (23) Priority Data: 2,222,993 4 February 1998 (04.02.98)  (24) Applicant (for all designated States except US): The Tario Cancer Institute [Ca/Ca]; Princess International Hospital, 610 University Avenue, Toronto, Ontary 2M9 (Ca).  (27) Inventors; and (Cancer Institute, Princess International Hospital, Room 7–117, 610 University Avenue, Ontario M5G 2M9 (Ca). BRAY, Mark, Robert [Cancer Institute, Princess Margaret Hospital Tario Cancer Institute, Princess Margaret Hospital Tario, 610 University Avenue, Toronto, Ontario M9 (Ca).  (27) Agent: RIDOUT & MAYBEE; Suite 2400, One Quee East, Toronto, Ontario M5C 3B1 (CA).	CHE ON Margar rio M5: Y, Jea Margar Toronto CA/CA II, Roori io M50	BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, G GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, K LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MV MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, S TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIP patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasia patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Europea patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, Gi IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, C) CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  Published  With international search report.

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## (57) Abstract

A method is provided for constructing, identifying and using new therapeutic or diagnostic proteins capable of binding to a target cell. The new proteins are derived by mutating a binding subunit of a wild type heteromeric cytotoxic protein to create a library of microorganism clones producing mutant proteins which are then screened for their ability to specifically bind to and kill a target cell.

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